	Application No.	Applicant(s)
Notice of Allowability		
	10/715,163 Examiner	ZHU ET AL. Art Unit
		Artonic
	Andrew L. Sniezek	2651
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this or other appropriate communical IGHTS. This application is subjection.	application. If not included attornion will be mailed in due course. THIS
1. This communication is responsive to <u>IDS of 12/11/03</u> .		
2. The allowed claim(s) is/are <u>1-12</u> .		
3. \boxtimes The drawings filed on <u>17 November 2003</u> are accepted by	the Examiner.	
 4. ☐ Acknowledgment is made of a claim for foreign priority unalled All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have a longer and longer and	e been received. e been received in Application No)
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	of this communication to file a re IENT of this application.	ply complying with the requirements
5. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
 CORRECTED DRAWINGS (as "replacement sheets") must (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the state of the property of the sheet in the sh	son's Patent Drawing Review (P. s Amendment / Comment or in the dr. 84(c)) should be written on the dr.	ne Office action of
7. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT	SIT OF BIOLOGICAL MATERIA FOR THE DEPOSIT OF BIOLOG	AL must be submitted. Note the GICAL MATERIAL.
 Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 12/11/03 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material 	6. ☐ Interview Summ Paper No./Mail 8), 7. ☐ Examiner's Ame	Date

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DETAILED ACTION

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Allowable Subject Matter

1. Claims 1-12 are allowed.

2. The following is an examiner's statement of reasons for allowance: The claimed multi-layer electrode as set forth in claim 1 having the a first and a second electrode layers provided in an arrangement on the bottom surface of the slider to electrostatically control the fly height of the slider is neither taught by nor an obvious variation of the art of record. The claimed slider arrangement as set forth in claim 7 that includes the electrostatic actuator electrode which includes a first and a second electrode layers provided in the arrangement on the slider to control the flying height of a transducer is neither taught by nor an obvious variation of the art of record. The claimed multi-layered electrode as set forth in claim 10 that forms a plurality of capacitors connected in series that controls the fly height of a slider with respect to a storage medium as set forth is neither taught by nor an obvious variation of the art of record. The multi-layer arrangement as set forth in the claims results in a reduced leakage current, provides a rapid response time of the fly height actuator arrangement and reduces field emission discharge as discussed in the specification.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

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3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Minoshima et al. teaches to use four charge surfaces to control the fly height of a slider. Yanagisawa and Maruo et al. teach related piezoelectric arrangements to control the position of a head. Rao et al. (US 20040233568A1) and Boutaghou et al. (US 20040051992A1) having the same assignee as the present invention teach related electrostatic arrangements used to control fly height.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andrew L. Sniezek whose telephone number is 571-272-7563. The examiner can normally be reached on Mon.-Fri..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Hudspeth can be reached on 571-272-7843. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Andrew L. Sniezek Primary Examiner Art Unit 2651

A.L.S. 8/19/05